This First Alert® Drinking Water Test Kit contains everything you need to find out simply and accurately if your water contains unsafe or undesirable levels of 8 common contaminants. Prior to testing, run water for 15-20 seconds to flush standing water from pipes, then follow instructions carefully for each test, and compare results to the Desired Values.

Drinking water which tests outside the desired values may be dangerous to your health.

**Water Test Desired Values**

**EPA maximum contaminant levels or guideline standards**

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Desired Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteria</td>
<td>None</td>
</tr>
<tr>
<td>Lead</td>
<td>Below 15 ppb</td>
</tr>
<tr>
<td>Pesticides</td>
<td>Below 3 ppb atrazine</td>
</tr>
<tr>
<td></td>
<td>Below 4 ppb simazine</td>
</tr>
<tr>
<td>Total Nitrate/Nitrite</td>
<td>Below 10.0 ppm</td>
</tr>
<tr>
<td>Nitrite</td>
<td>Below 1.0 ppm</td>
</tr>
<tr>
<td>Total Chlorine</td>
<td>Below 4 ppm</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 to 8.5</td>
</tr>
<tr>
<td>Total Hardness</td>
<td>50 ppm or less</td>
</tr>
</tbody>
</table>

**pH / hardness / chlorine test instructions**

1. Carefully open **pH / Hardness / Chlorine Test** packet and take out test strip.
2. Immerse the reagent pads into water sample and remove immediately. Hold the strip level for 15 seconds.
3. Match pH, Total Hardness and Total Chlorine pads (in that order) to the color chart.

<table>
<thead>
<tr>
<th>pH (end pad)</th>
<th>6.0</th>
<th>6.5</th>
<th>7.0</th>
<th>7.5</th>
<th>8.0</th>
<th>8.5</th>
<th>9.0</th>
<th>10</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR Total Hardness (middle pad)</td>
<td>0</td>
<td>50</td>
<td>120</td>
<td>250</td>
<td>425</td>
<td>ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Chlorine (pad nearest handle)</td>
<td>0</td>
<td>2.0</td>
<td>4.0</td>
<td>10</td>
<td>ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Nitrate / nitrite test instructions cont.**

2. Immerse the reagent pads into water sample for 2 seconds, remove, after 1 minute match colors to chart below.
3. Colors, after 1 minute match colors to chart below.

<table>
<thead>
<tr>
<th>Total Nitrate/Nitrite (as N) (end pad)</th>
<th>0</th>
<th>0.5</th>
<th>2.0</th>
<th>5.0</th>
<th>10</th>
<th>20</th>
<th>50</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrate (as N) (pad nearest handle)</td>
<td>0</td>
<td>0.15</td>
<td>0.3</td>
<td>1.0</td>
<td>1.5</td>
<td>3.0</td>
<td>10</td>
<td>ppm</td>
</tr>
</tbody>
</table>

NOTE: If your water tests outside the desired values, call the Safe Drinking Water Hotline at 1.800.426.4791.
before you begin...
1. Contents - One Bacteria Test Vial
   - One Lead / Pesticide Test Packet
   - One Nitrate / Nitrite Test Packet
   - One pH / Hardness / Chlorine Test Packet
2. Keep tests out of reach of children or pets. Do not ingest anything from this test kit. Do not drink the water sample used for testing.
   Store and use at room temperature (60-86˚F).
   Do not use on hot water or water containing bleach or detergents.
   Do not re-use any part of the test kit.
3. Do not open packets or vial until you are ready to perform the tests.
4. Read and follow all instructions carefully.

bacteria test instructions cont.

opening the vial:
Purple Color: Negative Result (No bacteria were detected)
Yellow Color: Positive Result (It is highly likely that potentially harmful bacteria were detected)

Note: Results observed after 50 hours may be invalid.

7. For positive results, add bleach to the sample before pouring down the toilet, then wash hands carefully. Negative samples may be poured directly into the toilet. Discard vial in the trash.

lead / pesticide test instructions

The Lead Test can detect dissolved lead at levels below the EPA Action level of 15 parts per billion (ppb). The Pesticide Test detects two of the most common pesticides used in the US at or below the EPA Maximum Contaminant Level (atrazine - 3 ppb, and simazine – 4 ppb).

1. Open Lead / Pesticide packet and take out all contents.
The packet contains a test vial, a dropper pipette, two test strips, and a desiccant (to be discarded).
2. Using dropper, place exactly TWO dropper-fuls of water sample into test vial. To pick up sample, tightly squeeze the bulb at the end of the dropper and place the open end into water sample. Release the bulb to pick up sample, then squeeze again to expel sample into vial.
3. Swirl vial gently for several seconds. Place on a flat surface.
4. Place both test strips into the test vial, with arrows pointing DOWN.
5. Wait 10 minutes. Do not disturb strips or vial during this time. Blue lines will appear on the strips.
6. Take the strips out of the vial and read results.

Negative: Bottom line (next to number 1) is darker than top line (next to number 2).

If you only see one line next to number 1, the test is negative.

Positive: Top line (next to number 2) is darker than bottom line (next to number 1), or lines are equally dark.

7. Note: If no lines appear, or both lines are very light, the test did not run properly and the result is not valid.

If a test strip shows a positive result, your water sample may contain lead or pesticides at a toxic level.

nitrate / nitrite test instructions

1. Carefully open Nitrate / Nitrite Test packet and take out test strip.